Applicant:

Xiaoqing Zheng

For:

ROTARY FACE SEAL ASSEMBLY

ABSTRACT OF THE DISCLOSURE

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A rotary seal assembly including a first member having a sealing face and a second member having a sealing face with a number of pumping grooves therein. At least a first set of pumping grooves stating proximate a center portion of the sealing face and extending outward and at least a second set of pumping grooves starting proximate the center portion of the sealing face and extending inward to direct fluid fed to the center portion of the sealing face simultaneously both inwardly and outwardly from the center portion of the sealing face to provide a uniform fluid film thickness between the sealing faces of the first and second members when one sealing face cones due to thermal and/or pressure effects.

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